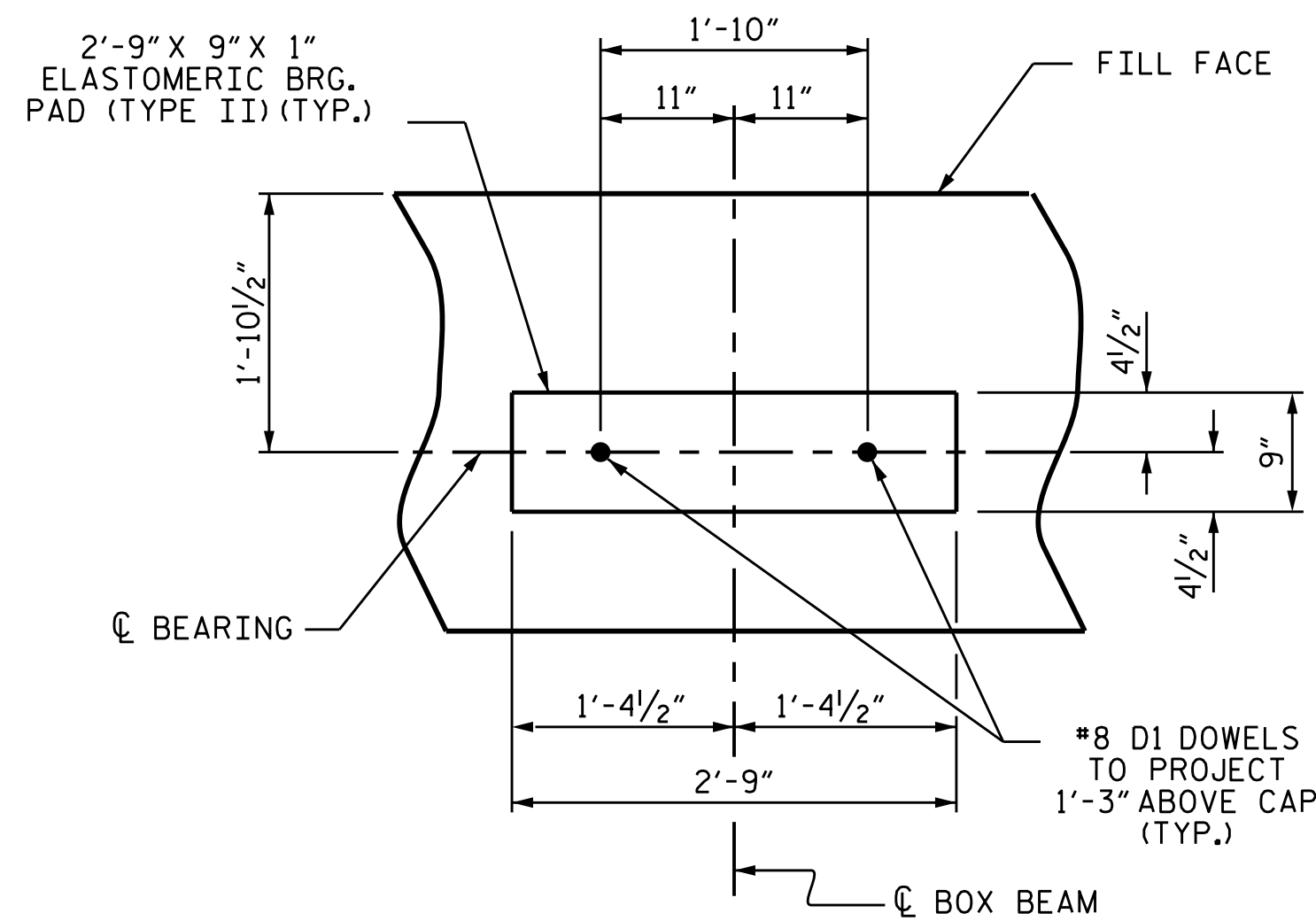


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

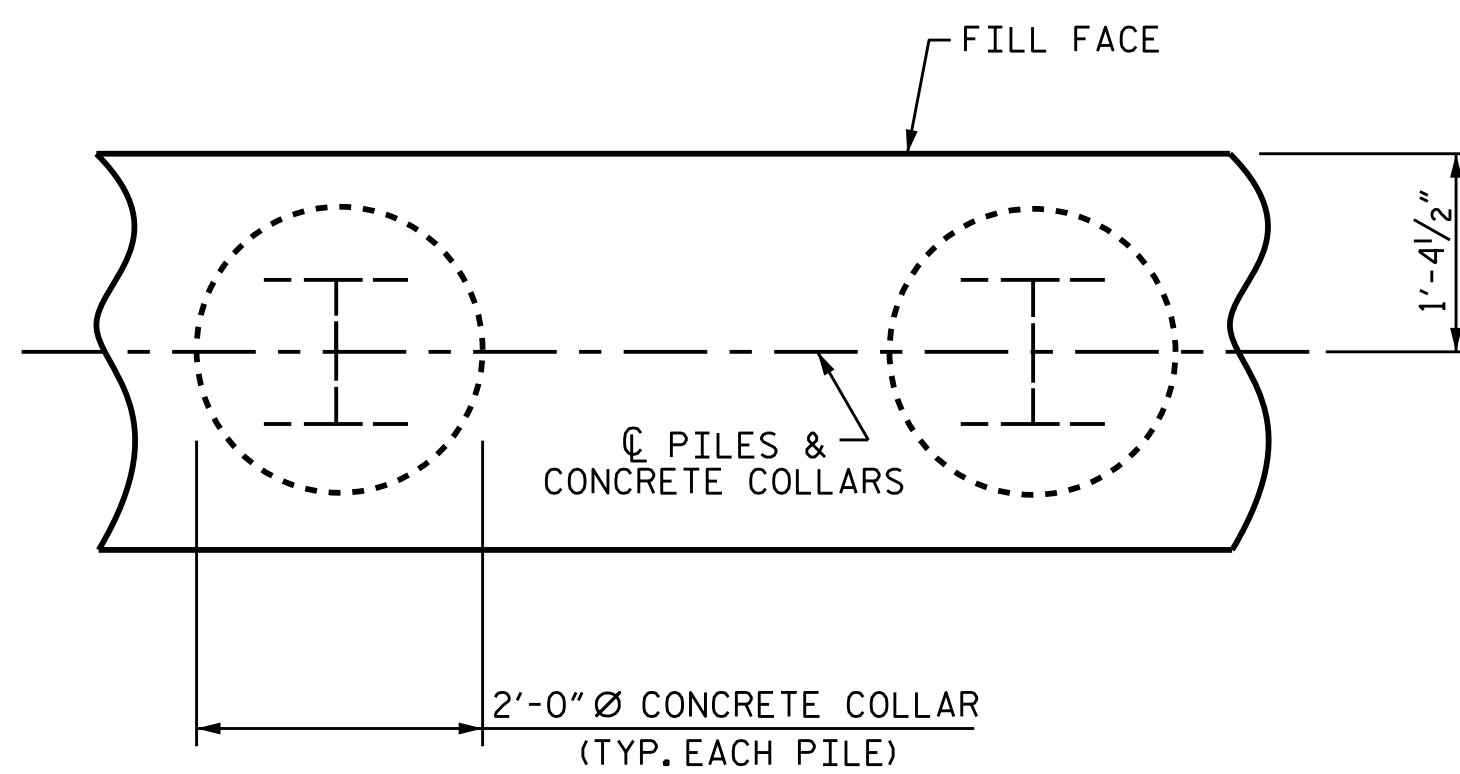
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR EFFECTIVENESS.

NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

TEMPORARY DRAINAGE AT END BENT

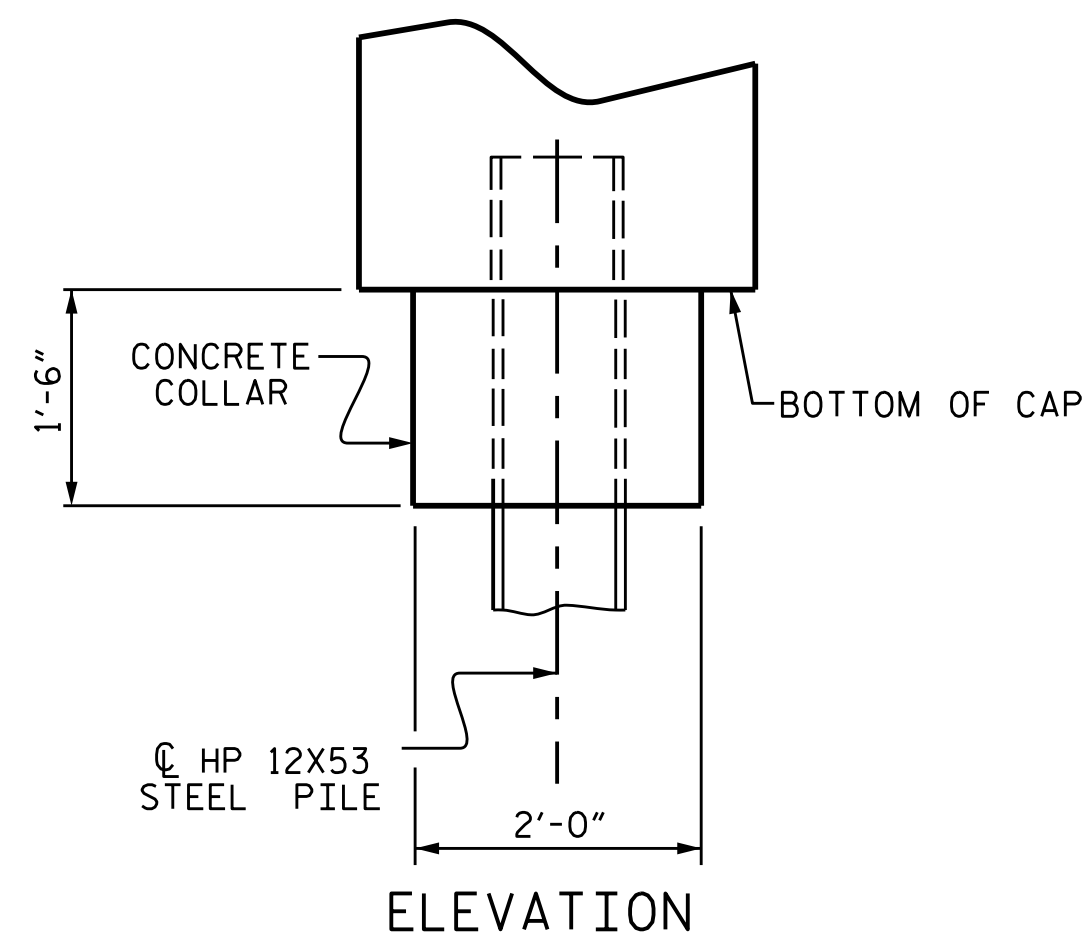


DETAIL "A"

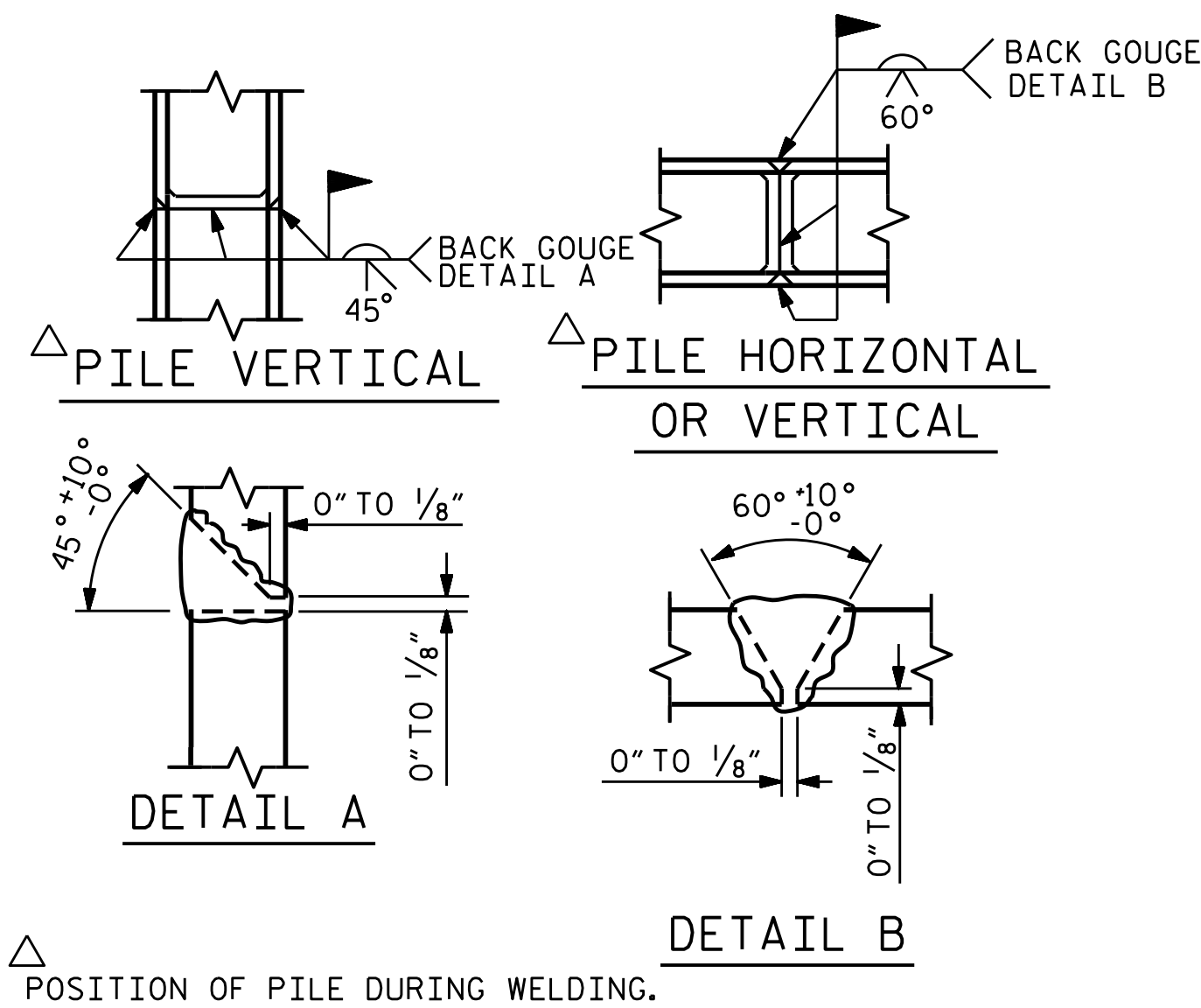


PLAN

CORROSION PROTECTION FOR STEEL PILES DETAIL

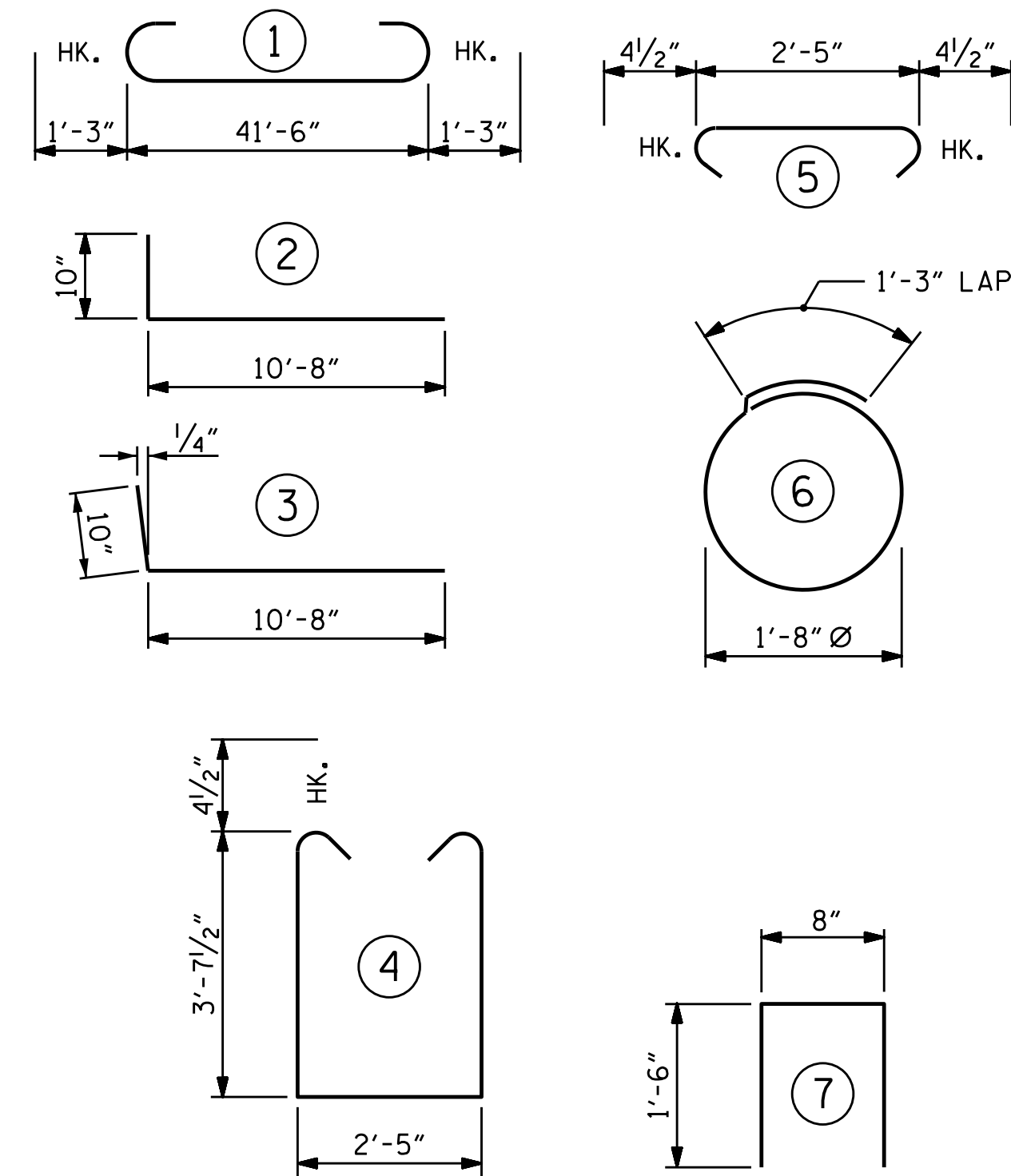


ELEVATION



PILE SPLICE DETAILS

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

END BENT 2

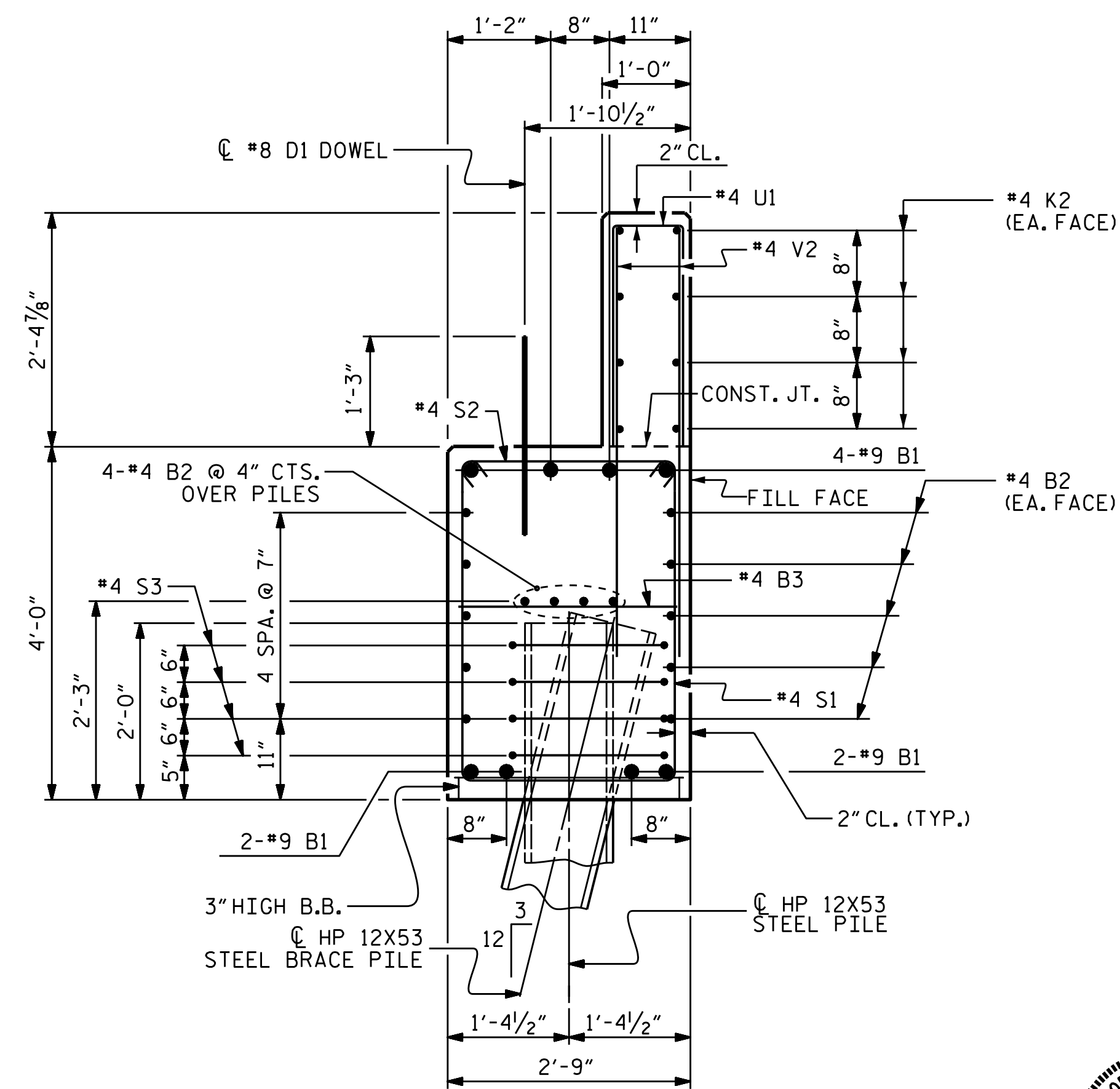
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	#8	STR	44'-0"	1197
B2	#4	STR	22'-1"	413
B3	#4	STR	2'-5"	18
D1	#8	STR	2'-3"	144
H1	#5	2	11'-6"	288
H2	#5	3	11'-6"	288
K1	#4	STR	3'-1"	16
K2	#4	STR	22'-1"	236
S1	#4	4	10'-5"	390
S2	#4	5	3'-2"	118
S3	#4	6	6'-6"	122
U1	#4	7	3'-8"	88
V1	#4	STR	7'-8"	307
V2	#4	STR	6'-0"	289

REINFORCING STEEL LBS. 3,914

CLASS A CONCRETE BREAKDOWN

POUR #1	CAP, LOWER PART OF WINGS & COLLARS	C.Y.	21.3
POUR #2	BACKWALL & UPPER PART OF WINGS	C.Y.	7.1
TOTAL CLASS A CONCRETE		C.Y.	28.4

HP 12X53 STEEL PILES NO: 7 LIN. FT. 175



SECTION A-A

(CONCRETE COLLAR NOT SHOWN FOR CLARITY. SEE "CORROSION PROTECTION FOR STEEL PILES DETAIL.")



PROJECT NO. B-4972
 CABARRUS COUNTY
 STATION: 22+55.00 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 SUBSTRUCTURE
 END BENT 2

REVISIONS				SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

TOTAL SHEETS 31

ASSEMBLED BY: N.D. AIUTO DATE: 10/6/14
 CHECKED BY: M.E. GILES DATE: 12/17/14
 DESIGN ENGINEER OF RECORD: J.P. MCCARTHA DATE: 12/17/14